



PIDG POLYETHERETHERKETONE (PEEK) TERMINALS, PART OF THE STRATO-THERM TERMINAL PRODUCT FAMILY

QUICK REFERENCE GUIDE

PRODUCT DESCRIPTION

TE Connectivity (TE)'s PIDG PEEK terminals are closed ring tong terminals designed to deliver uniform, long-term reliability in the harshest circuit environments—especially where high vibrations, and wire movement are factors. These terminals are specifically designed to help maintain electrical and mechanical integrity in extreme operating conditions. In fact, they feature a high-performance PEEK insulated body paired with a metal sleeve that crimps directly onto the wire insulation, to help ensure added mechanical support and consistent performance.

The vibration-resistant wire barrel helps allow the conductor to bend in any direction without compromising insulation or conductor strands—an essential requirement in high-motion environments such as aerospace, industrial machinery, rail, and defense systems, among others.

With millions of PIDG terminals and splices installed in the field for decades—across multiple insulation systems and industries—this product family continues to demonstrate strong durability. Its long service life is a testament to TE's rigorous testing, materials science expertise, and precision manufacturing processes.

PIDG PEEK terminals and splices employ the equally reliable confined “C” crimp plus multiple position insulation support crimp for today's smaller insulated wires. This “C” crimp is especially suited to crimping the terminal barrel and insulation sleeve to stranded wire conductors. The photomicrograph shows the results of “C” crimping. Fig 1

ELECTRICAL

- Voltage rating: tested at 1500V Dielectric Withstand voltage

MECHANICAL

- Wire size: 24AWG to 10AWG

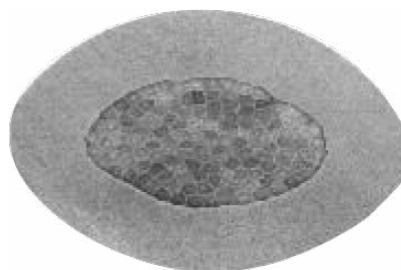
MATERIALS

- Terminal Body: Copper
- Metallic Sleeve: Copper
- Nickel plating
- Insulation: UL94 V-0

STANDARDS & SPECIFICATIONS

- Product Specification: [108-15356](#)
- Application Specification: [114-15102](#)
- EN 3373-001
- EN 2591

Confined C crimping Fig 1



PIDG PEEK TERMINALS

KEY FEATURES

- Made of high-conductivity Copper; Nickel plated for enhanced corrosion protection
- Copper sleeve that crimps onto the wire insulation for vibration resistance and added wire insulation support
- Body features inner serrations for maximum electrical contact and tensile strength
- Insulation sleeves are color-coded by wire size

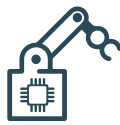
APPLICATIONS



Aerospace



Oil & gas



Automation
and Control



HVAC
Equipment



Defense & Marine



Alternative
energy



Automotive



Industrial
machinery

PIDG PEEK CLOSED RING TONGUE TERMINALS

Wire Size	Stud Size				Dimensions (Max.)			Color Code	Wire Insulation Outside Dia. in. mm	Style	Part Number	NSA936501	Hand Tool Part Number
	+/- .03 in. [+/- 0.8mm]	Metric	BA #	UN #	W in. / mm	L in. / mm	C in. / mm						
22-24	.119 [3.02]	M2.5	6	4	.218 [5.54]	.71 [18.04]	.148 [3.76]	Brown	.035-.075/0.90-1.90	A	1577616-1	TA 2201	576778 AWG 24 and AWG 22
	.119 [3.02]	M2.5	6	4	.281 [7.14]	.839 [21.32]	0.242 [6.15]				1577618-1	TA 2203	
	.145 [3.68]	M3.5	4	6	.218 [5.54]	.71 [18.04]	.148 [3.76]				1577617-1	TA 2202	
	.145 [3.68]	M3.5	4	6	.281 [7.14]	.839 [21.32]	0.242 [6.15]				1577619-1	TA 2204	
	.171 [4.34]	M4	3	8	.281 [7.14]	.839 [21.32]	0.242 [6.15]				1577620-1	TA 2205	
	1.97 [5.00]	-	2	10	.281 [7.14]	.839 [21.32]	0.242 [6.15]				1577621-1	TA 2206	
	.119 [3.02]	M2.5	6	4	.218 [5.54]	.804 [20.43]	0.242 [6.15]		.035-.075/0.90-1.90	A	1577960-1		
	.093 [2.36]	-	-	2	.218 [5.54]	.71 [18.04]	.148 [3.76]			A	1577961-1		
22-20	.119 [3.02]	M2.5	6	4	.281 [7.14]	.832 [21.132]	.25 [6.35]	Green	.035-.080/0.90-2.03	A	2538870-1		
	.171 [4.34]	M4	3	8	.312 [7.92]	.878 [22.301]	.281 [7.137]		.035-.080/0.90-2.03	A	2538912-1		
	.197 [5.00]	-		10	.312 [7.92]	.878 [22.301]	.281 [7.137]		.035-.080/0.90-2.03	A	2538915-1		

PIDG PEEK TERMINALS

Wire Size	Stud Size				Dimensions (Max.)			Color Code	Wire Insulation Outside Dia. in. mm	Style	Part Number	NSA936501	Hand Tool Part Number
	+/- .03 in. [+/- 0.8mm]	Metric	BA #	UN #	W in. / mm	L in. / mm	C in. / mm						
20	.119 [3.02]	M2.5	6	4	.281 [7.14]	.833 [21.16]	.242 [6.15]	Grey	.045-.080 / 1.14-2.03	A	1577622-1	TA 2001	576779 AWG 20
	.119 [3.02]				.218 [5.54]	.780 [17.99]	.148 [3.76]				1577626-1	TA 2006	
	.148 [3.76]	M3.5		6	.218 [5.54]	.780 [17.99]	.148 [3.76]				1577625-1	TA 2005	
	.171 [4.34]	M4	3	8	.281 [7.14]	.833 [21.16]	.242 [6.15]				1577623-1	TA 2003	
	.197 [5.00]	-	2	10	.281 [7.14]	.833 [21.16]	.242 [6.15]				1577624-1	TA 2004	
	.256 [6.50]	M6	-	1/4	.469 [11.91]	1.114 [28.30]	.429 [10.90]				1577627-1	TA 2008	
	0.328 [8.331]	M8	5/16	5/16	.469 [11.91]	1.114 [28.30]	.429 [10.90]				1577628-1	TA 2009	
	.390 [9.91]	M9.5	3/8	3/8	.469 [11.91]	1.114 [28.30]	.429 [10.90]				1577629-1	TA 2010	
18-16	.119 [3.02]	M2.5	6	4	.218 [5.54]	.711 [18.06]	.141 [3.58]	Orange	.055-.105 / 1.40-2.67	A	1577630-1	TA1601	576780 AWG 18 576781 AWG 16
	.145 [3.68]	M3.5	4	6	.281 [7.14]	.836 [21.24]	.235 [5.97]				1577631-1	TA1602	
	.171 [4.34]	M4	3	8	.312 [7.92]	.883 [22.43]	.266 [6.76]				1577632-1	TA1603	
	.197 [5.00]	-	2	10	.312 [7.92]	.883 [22.43]	.266 [6.76]				1577633-1	TA1604	
	.265 [6.73]	M6	-	1/4	.469 [11.91]	1.117 [28.38]	.422 [10.72]				1577634-1	TA1605	
	.328 [8.33]	M8	5/16	5/16	.469 [11.91]	1.117 [28.38]	.422 [10.72]				1577635-1	TA1606	
	.390 [9.90]	M9.5	3/8	3/8	.531 [13.49]	1.242 [31.55]	.516 [13.11]				1577636-1	TA1607	
14-12	.119 [3.02]	M2.5	6	4	.25 [6.35]	.749 [19.03]	.163 [4.14]	Beige	.091-.125 / 2.30-3.18	A	1577637-1	TA1401	576782 AWG 14 576783 AWG 12
	.145 [3.68]	M3.5	4	6	.25 [6.35]	.749 [19.03]	.163 [4.14]				1577638-1	TA1402	
	.171 [4.34]	M4	3	8	.343 [8.71]	.905 [22.99]	.273 [6.94]				1577639-1	TA1403	
	.197 [5.00]	-	2	10	.343 [8.71]	.905 [22.99]	.273 [6.94]				1577640-1	TA1404	
	.265 [6.73]	M6	-	1/4	.469 [11.91]	1.124 [28.56]	.429 [10.90]				1577641-1	TA1405	
	.328 [8.33]	M8	5/16	5/16	.469 [11.91]	1.124 [28.56]	.429 [10.90]				1577642-1	TA1406	
	.390 [9.90]	M9.5	3/8	3/8	.531 [13.49]	1.249 [31.73]	.523 [13.28]				1577643-1	TA1407	
	.119 [3.02]	M2.5	6	4	.213 [5.4]	.845 [21.47]	.273 [6.94]		.091-.125 / 2.30-3.18	B	1577965-1		
	.245 [6.22]	M6	-	1/4	.469 [11.91]	1.124 [28.56]	.429 [10.90]			A	1577966-1		
10	.119 [3.02]	M2.5	6	4	.281 [7.14]	.984 [25.00]	.206 [5.23]	Black	.102-.214 / 2.60-5.44	A	1577644-1	TA1001	576784 AWG 10
	.145 [3.68]	M3.5	4	6	.375 [9.53]	1.119 [28.43]	.289 [7.34]				1577645-1	TA1002	
	.171 [4.34]	M4	3	8	.375 [9.53]	1.119 [28.43]	.289 [7.34]				1577646-1	TA1003	
	.265 [6.73]	M6	-	1/4	.531 [13.49]	1.327 [33.71]	.424 [10.77]				1577648-1	TA1005	
	.328 [8.33]	M8	5/16	5/16	.531 [13.49]	1.358 [34.5]	.455 [11.56]				1577649-1	TA1006	
	.390 [9.90]	M9.5	3/8	3/8	.593 [15.06]	1.452 [36.88]	.518 [13.16]				1577650-1	TA1007	
	.197 [5.00]	-	2	10	.375 [9.53]	1.119 [28.43]	.289 [7.34]				1577647-1	TA1004	
	.197 [5.00]	-	2	10	.375 [9.53]	1.119 [28.43]	.289 [7.34]				2-1577647-2		

PIDG PEEK TERMINALS

DESIGN-IN QUESTIONS

- **What are the minimum and maximum temperatures the connector will experience?**
Terminals were subjected to rapid temperature changes ranging from -65 °C to +275 °C.
- **What are the vibration profiles and shock levels of your application?**
Terminals were subjected to vibration testing per EN 2591 403, Method A: 10 Hz-2500 Hz
- **What is the maximum operating voltage?**
PEEK insulation test at 1500V Dielectric Withstand voltage
- **Does the material need to meet UL 94 V-O or specific aerospace low-smoke/toxic emissions standards?**
PEEK resin raw material technical data sheet is rated UL 94 V-O

APPLICATION TOOLING

For information on the application tooling required to terminate TE's PIDG PEEK terminals—and to learn more about the available solutions ranging from hand tool, to pneumatic or hydraulic ones—you may contact a TE Representative or a Product Specialist at www.te.com/support

Connect With Us

We make it easy to connect with our experts and are ready to provide all the support you need.

Visit te.com/support to chat with a Product Information Specialist.

te.com/en/products/brands/pidg

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